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The expression

$$v = \frac{D}{KT} (q^2 - \frac{4}{3} i^2) = \frac{1}{k \sigma T_0} (q^2 - \mu^2) D$$

is derived for the mean velocity (v) of an atom, in a crystal lattice, that is acted on by (1) the electric field produced by passing a current through the metal and (2) the collision of conduction electrons through the crystal lattice. Here q is the charge on the ion, δ is the unit shift, i is current density, σ is specific conductivity, D is the diffusion coefficient in the (Physics--Solid State, TT, v. 5, no. 9) (over)

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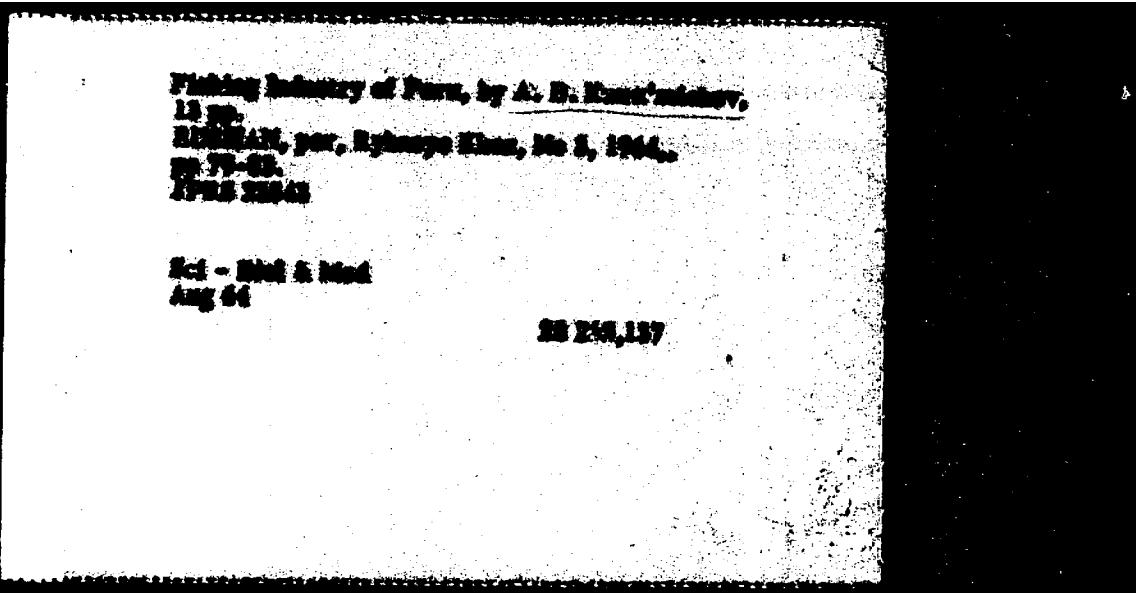
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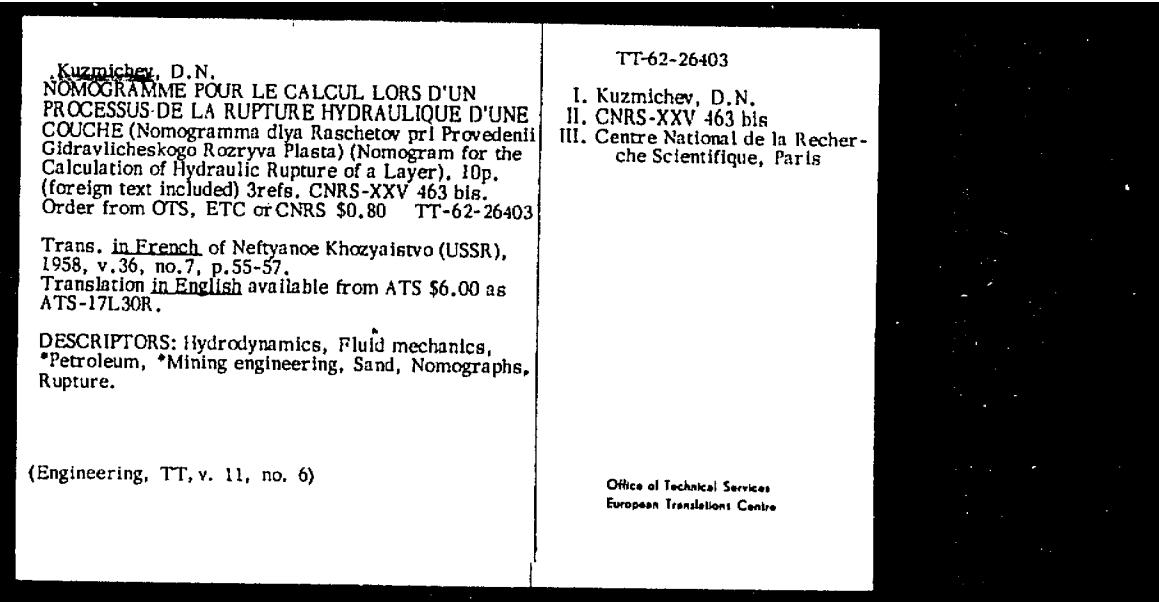
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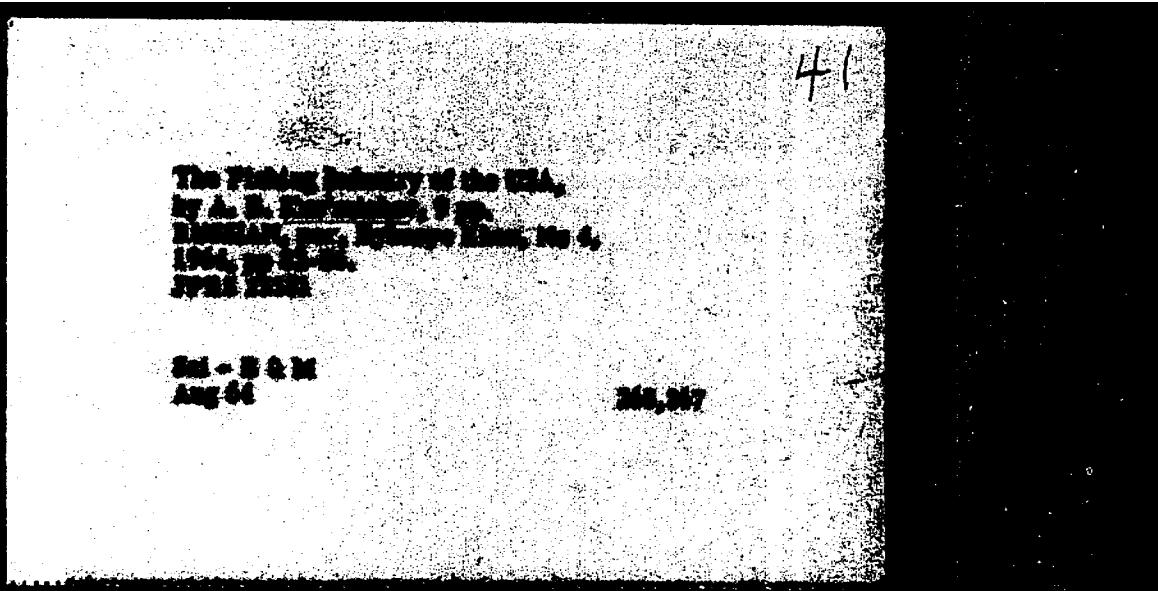
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